

# ASBESTOS

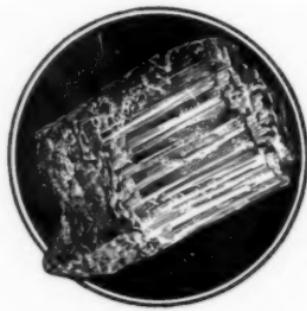
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Vol. 3

SEPTEMBER, 1921

No. 3

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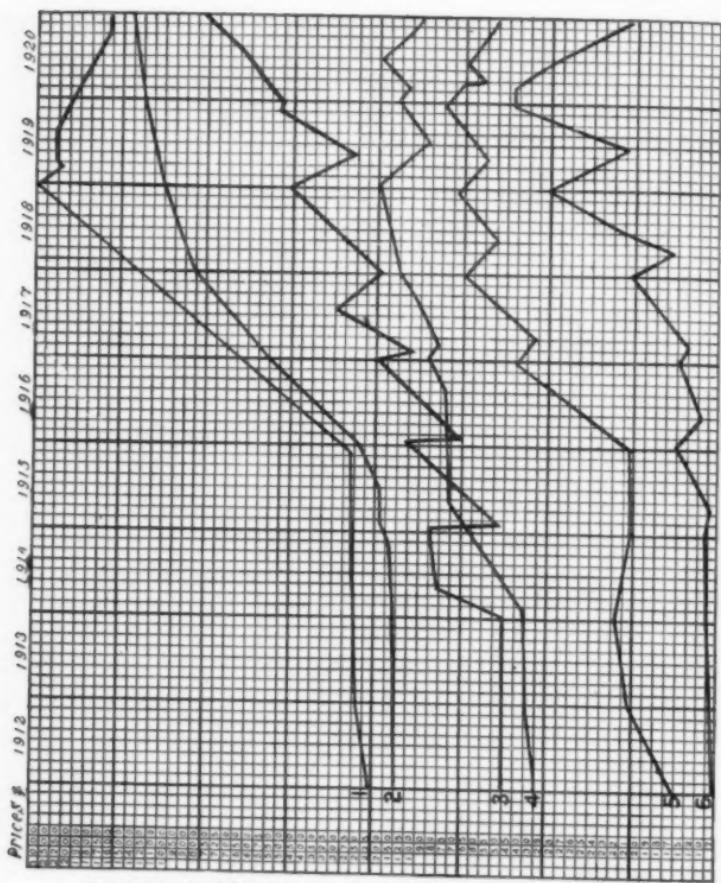
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September, 1921

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## A S B E S T O S

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# Asbestos Cloth

Its Manufacture and General Uses

By ROY A. SMITH

In this article in talking of Asbestos, we will consider almost entirely the Canadian Chrysotile (or fibrous silicate of magnesia) rather than the Crocidolite or other types.

True, Asbestos Cloth has been woven from these other types, Crocidolite or Blue Cape especially being extensively used for this purpose in England. Blue Asbestos Cloth is particularly adapted for the manufacture of mattress lagging, and this lagging is considered by some users to be much superior to the 85% magnesia lagging used almost exclusively in this country. In general, however, Crocidolite has not found favor with the American manufacturers owing to its harshness.

The early use of Asbestos Cloth was confined to table cloths, napkins and cremation cloths (fancifully called the funeral dress of kings). In those early days only hand sorted samples of the mineral were used, and, following the custom of the ancients we of this age classify and grade Asbestos according to the various uses to which it will ultimately be put.

### Grading of Fibres

For many years only two grades of Asbestos were used for spinning purposes, but recently, owing to the increased demand for Asbestos Textiles in general, certain refinements in manufacture were inaugurated and milled fibres are now used in the cheaper cloths, wick, etc.

All initial grading is done at the mines or quarries, separation being made as to length of material. No. 1 Crude is the premier grade and comprises material having a fibre length of three-quarter inch or over. No. 2 Crude, the second grade, is practically all Crude the length of which is less than three-quarter inch. The milled (or spinning fibres) are those fibres which have been put thru the milling process, crushers, rolls, screens, fans, etc., to separate them from clinging particles of rock, iron content or dirt residue, and are then automatically graded according to length of fibre. Only the longer grades of milled stocks are used for spinning, the shorter grades going into the manufacture of paper, shingles, cement, etc.

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### Manufacturing Processes

When the Asbestos Crude is received from the mine, it is "chased," or broken down and all short fibres, or sand, screened out. Then the fibre is mixed with specified percentages of cotton in a picker. Owing to the smoothness of Asbestos fibres it has been found necessary to add a binding agent to amalgamate the fibrous bodies. Cotton is used because its rough surface will cause the Asbestos fibres to adhere closely to it and thus the spinning operation is made possible. The percentage of cotton used in mix is, of course, gauged by the purpose for which the cloth is to be used. For commercial use, the cotton content should not be over fifteen per cent of mix, as a greater percentage would give almost a fifty-fifty mix by volume of combustible and incombustible material. Thru many years of experimentation it has been found that a mix of 15% cotton gives sufficient practical aid in running the asbestos thru the manufacturing process, combining the advantage of quantity production with a commercial quality product.

Even the so-called "pure" Asbestos Cloths contain, of necessity, some slight percentage of cotton, just sufficient to permit the spinning of the yarn.

After the mixing process, the mix is carded on much the same type of card as is used for wool or cotton. The card clothing, naturally, has been changed in order to handle the harsher type of material, but the principle is the same. These cards are set to produce a sloven of certain set weights, ranging from a heavy four or five cut to a light thirty cut material. This sloven is wound on a bobbin during the process, and when full these bobbins are taken off and the material spun on either a mule or a spinning frame.

The different manufacturers have their pet hobbies as to the advantages or disadvantages of these types of machines. The mule will give a greater production with less labor turnover than the spinning frame, but will not turn out a high class fine stock. The whipping action of the mule on the lighter material will cause it to break, making an imperfect yarn. The spinning frame gives a tighter twist, naturally adding to the tensile strength, which in very fine yarn is an essential feature.

After the spinning process, the single ply material is

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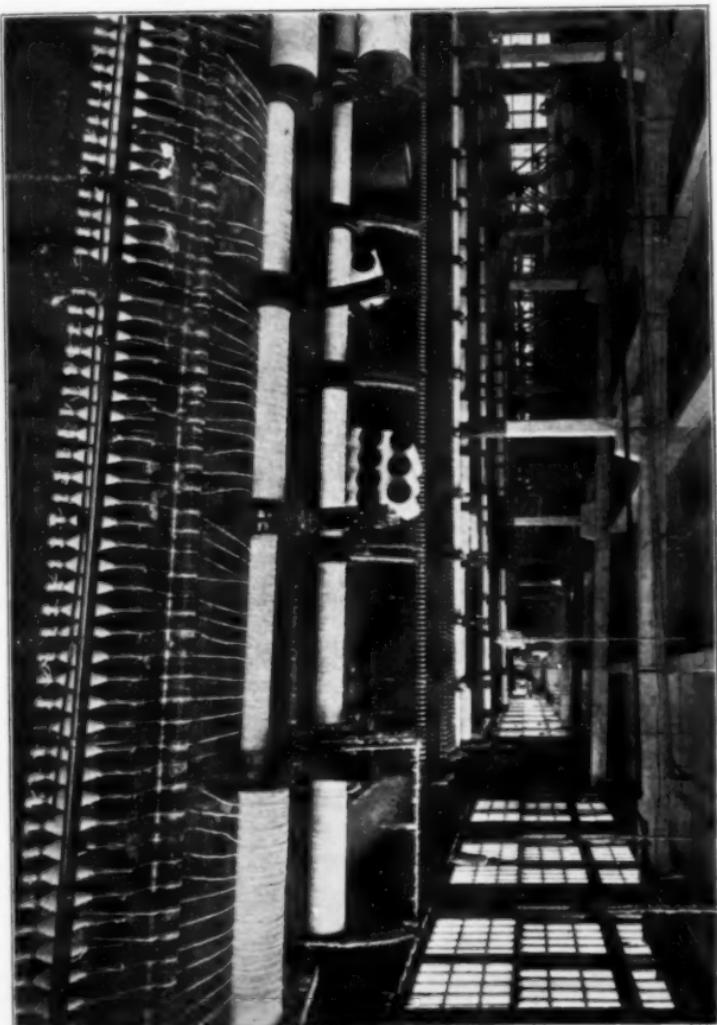


Photo supplied by Asbestos and Mineral Corporation.  
*Section of the Spinning Room of a Large Asbestos Textile Plant.*

## — A S B E S T O S —

used in one of two ways; either it is twisted with another strand of yarn, or one or two plies of yarn are twisted with wire (copper, brass, lead or iron).

The next step in the manufacture of Asbestos Cloth is warping. This necessitates the use of large racks or frames to hold the twisted yarn; from these the yarn is carried to the beam, or warping spool. A sufficient number of ends are beamed to give the width of cloth desired, an equal number of strands of yarn (called picks) being distributed to each inch. The weight of the finished cloth will naturally vary with the increase or decrease in the weight of the yarn and number of picks per inch.

After having been beamed, the warp is placed on a loom, the various ends drawn thru to form the style of weave desired. A bobbin of filler, or woof, is inserted in the shuttle, power turned on, and the cloth is woven in practically the same manner as in cotton or woolen textile industries. When the warp has been "run out," the finished cloth is cut from the loom, measured, inspected, and calendred, after which it is ready for shipment.

### Uses.

Many and varied are the uses to which Asbestos Cloth is put. We will try to cover them briefly, giving particular attention to the ones into which the greater volume of production goes.

### For Fire and Acid Resisting Purposes.

Asbestos Cloth is at the present time specified by practically every city and state in the world as a safety drop curtain for theatres and amusement halls. This curtain localizes the fire hazard and allows the audience to retreat in order. Asbestos curtains are usually made from cloth having brass or copper wire intertwined with the Asbestos yarn, this to give the necessary tensile strength. Cloth for this purpose should have a cotton content of not over ten to twelve per cent.

The Asbestos manufacturers have done much towards furthering municipal regulations as to fire resisting curtains, and therefore, by insisting on the proper quality of Asbestos Cloth should insure theatre patrons that the name *Asbestos* on a curtain really stands for protection. Before being painted, theatre curtains are usually sized with some combustible material, and should a large percentage of

— A S B E S T O S —

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## — A S B E S T O S —

cotton be used in an Asbestos mix, the woven material will immediately disintegrate under excessive direct heat.

Asbestos Cloth is used in many theatres as a wall and floor lining and is coming into more general use in the construction of scenery. This latter field has wonderful possibilities for the manufacturer. It is their duty to bring their product to the attention of theatre owners, and, if necessary, force legislation to insure full protection to the theatre going public.

Small halls which are not fully equipped as to stage properties, etc., and whose use at times requires full floor space, are readily converted into motion picture halls by the installation of portable motion picture machine booths. These booths are manufactured from Asbestos cloth and angle iron, are easily set up and taken down, and give practically the same protection as one made from Asbestos lumber.

Garments manufactured from Asbestos cloth are used as a protection against fire, injuries from acids and molten metals. It is almost essential that every fire department have some of these suits on hand in case it is necessary to enter a burning building. As a general rule the suits are fastened with clasps, so that they can be readily put on. With the suit, and forming a part of it, is the helmet or head cover, this latter also protecting the smoke respirator.

Aprons, masks, leggins and gloves are also manufactured for welders and moulders. Hot metal can be handled for short periods by using a reinforced Asbestos glove, made from a good grade of plain or unwired cloth. Gloves and mittens are used in the army and navy by gunners handling field, seige, naval and machine guns, as they give the men ample protection when unloading or gripping their guns under rapid fire.

Moving picture actors and actresses use Asbestos Cloth quite extensively as under garments when doing some daring "stunt" where there is risk of fire.

Asbestos cloth blankets have found much favor in their adaptability for subduing burning spirit vapor, naptha, gasoline, etc. These blankets also aid in confining fires until fire appliances can be brought into play. As a "first aid" in factories using volatile spirits they are almost invaluable.

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Photo by courtesy of the Keasbey & Mattison Co.

*A Complete Asbestos Costume. Note the clasps which are used for fastening so that they may be readily put on.*

Asbestos cloth for mangle work has been in use for a number of years. Owing to the width and class of material desired by large laundries the manufacturers have done very little toward promoting this phase of their industry. The manufacture of an asbestos mangle cloth has wonderful possibilities, as the dampness and heat of the mangle process readily attacks the duck cloths now in use, and this combination would have no effect on the mineral—Asbestos.

Another large field, at present almost untouched, is the blue print trade. The printing machines now in use are almost all equipped with a duck "apron." This apron readily disintegrates under the action of acids and heat

# Bell Asbestos Mines

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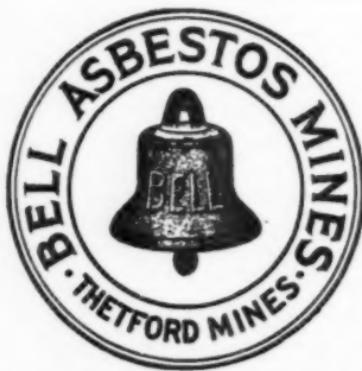
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U. S. A.

## — A S B E S T O S —

element of printing. An asbestos apron would readily withstand these influences and is therefore not only a source of outlet for the product but a boon to the user.

Protectors for the gas bags in balloons are made of Asbestos cloth, and mail bags used in airplanes are lined with the same material.

### **Brake Lining.**

Asbestos Cloth is used for the manufacture of what is known as the "folded and stitched type" of Brake Lining. The Cloth is folded to the desired width, stitched and then put thru various manufacturing processes, making a very efficient lining for brakes of automobiles and heavy machinery.

### **Filtering Medium**

For many years Asbestos cloth has been used in foreign countries as an agent for filtering the saccharine juices in the beet root sugar refineries. It is also used in laboratories for filtering acids and alkalies which would destroy an ordinary filter paper. These Asbestos cloth filters are readily cleansed and in many instances function better than any other material.

Asbestos bags, made from a very fine grade of light Asbestos cloth, have recently been installed in a plant manufacturing Zinc Oxide. These bags are capable of handling the hot material from the blowers and do not have the tendency to burn out in use, which is one of the main difficulties found in the use of cotton material for work of this nature.

Asbestos bags and diaphragms are in constant use at present in the manufacture of hydrogen and oxygen. These two gases are made commercially under the electrolytic process, oxygen being collected at the positive pole and hydrogen at the negative pole. Cloth for this purpose should contain the lowest possible percentage of organic matter, as well as being of the "light proof" variety. If the Asbestos cloth is made of a grade inferior to that mentioned, acid elements entering into the manufacture of oxygen and hydrogen, will destroy the cotton in the mix and therefore weaken the cloth or cause pinholes to develop, resulting in impurities in the gases.

### **Packings.**

One of the largest commercial uses of Asbestos Cloth

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SPECIALIZING  
*IN*  
**BLUE ASBESTOS**

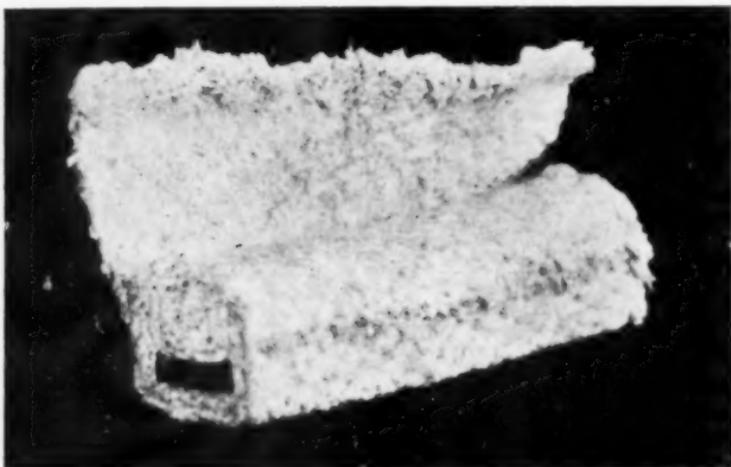
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Mines-Griqualand, South Africa  
Associated with Cape Asbestos Co. Ltd.  
London, England

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is for the manufacture of high pressure packing. This type of packing will remain unaltered under the influence of heat or steam, however high the pressure or velocity of steam to which it is subjected.

Various classes of Asbestos cloth are used in the construction of packings, and owing to their general use it hardly seems necessary to explain the purposes for which each class is used. The usual combination is a rubber coated cloth, folded or rolled on itself until the desired size is reached. Cloths manufactured from brass or copper inserted yarn, as well as cloth having a lead wire woof, are much in use for the manufacture of high pressure packing.



*Wound Cloth Asbestos Packing, with rubber cushion.*

The sample photographed was furnished by the United States Asbestos Company, of Lancaster, Pa.

Asbestos cloth is coated with rubber and used for the manufacture of gaskets, sheet packings, etc. Present boiler equipment enables the manufacturer or steamship owner to risk high steam pressures, and this greatly stimulates the demand for Asbestos packings, as nothing can replace Asbestos under these conditions, while the modern demand for speed, which is almost universal, necessarily still further increases the use of Asbestos Packings.

Every year adds its quota to new uses for Asbestos Cloth, these uses, for the most part, being discovered by the

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consuming public. If even a small amount of time was devoted to scientific research in an endeavor to establish still newer uses, it is safe to assume that the demand for Asbestos Cloth would be immeasurably increased.

## U. S. Navy Department to Test Compressed Sheet Packing

The Bureau of Engineering, Navy Department, Washington, D. C., has arranged to hold a meeting of packing manufacturers on Tuesday, September 13th, 1921, at ten o'clock a. m., Room 2309, New Navy Department Building 18th and B Streets, Washington, this meeting to discuss plan of tests to be conducted by the Naval Engineering Experiment Station on Compressed Sheet Packing.

The date of the test (which was formerly set for September 15th) has been postponed to October 3rd.

Unfortunately ASBESTOS goes to press before the meeting on the 13th, and can therefore give no account of it in this issue.

The test is to be held at the Government's expense, samples to be furnished by exhibitor, charges prepaid, free of cost to the Government, two sheets, 40 in. x 40 in. being required, one in one-eighth and the other in one-sixteenth thickness. The products of manufacturers only are solicited, it being explained that dealers who desire to bid on Government schedules may bid on a manufacturer's product, registered and tested by the Bureau. The idea of the Government is to discourage the practice of marketing a brand of packing indiscriminately manufactured by subcontract.

The samples should be sent to the Supply Officer, U. S. Naval Academy, Annapolis, Md., and marked "For test at Naval Engineering Experiment Station." Permanent identification marks should be attached to the samples.

The Bureau requests, however, that no samples be sent until after the proposed meeting on September 13th.

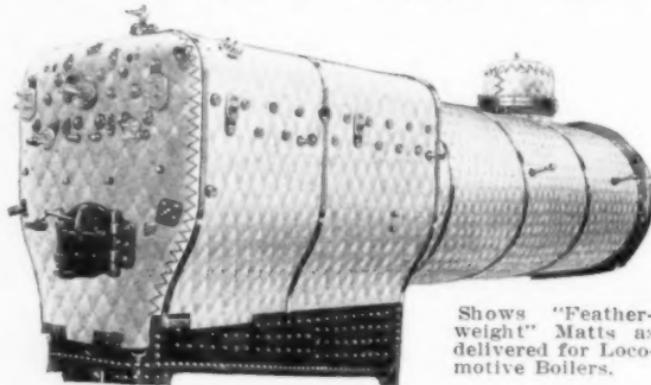
The meeting on September 13th, will also discuss the present specifications for Asbestos Valve Stem, Woven Asbestos Sheet, H. P. Spiral Rod and other Asbestos Packings.

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## Fundamental Business Factors

An old Civil War Veteran met his comrade on the street one day after thirteen consecutive days of rainfall. "Think it will ever stop raining?" queried the comrade. "It always has!" ejaculated the Old Veteran.

In periods of business depression, one thinks good times will never return. Sometimes it would appear that the threatened millennium was upon us and that nothing would remain intact but the ruins. In the philosophy of the old veteran, business has withstood many of these strains and doubtless she can pass thru some more.

So called liquidation has about run its course. We are fairly adjusted from a wartime to a peace basis. Constructive factors are at work which will clear the atmosphere and establish business on a sound basis. Business men are having more and more faith in the future and in the administration at Washington.

The administration is lending every energy to removal of the great burdens upon commerce and industry to aid in recovery where the Government can assist. As a means to that end it contemplates reduction of governmental expenditure, tariff settlement, more efficient Federal machinery, reorganization of the merchant marine, refunding of foreign loans, relief from armament expense, assistance to exporter of our commodities and enlargement of our foreign commerce, assistance to farmers and settlement of the railway problem with adjustment of the rates and elimination of waste in government administration.

While this is an ambitious program to permit of complete achievement, it is, nevertheless, a manifestation of good faith in an endeavor to aid toward enduring recovery from present unsatisfactory conditions.

President Harding has called a conference of the nations for November 11th, the anniversary date of the Armistice, for the establishment of peace officially and finally. The confidence carried by the formal peace to be declared at this meeting will do much toward establishing international equilibrium. Germany has already begun paying indemnities as well as demonstrating her ability to pay to the satisfaction of the Allies.

The administration is pledged to policies of economy.

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The great peace conference already called will doubtless result in international disarmament with consequent reduction of taxes now necessary to maintain superior armies and navies. This international understanding as to armaments will not only eliminate the excess profits tax now burdening industry, but will otherwise lighten taxation. Abroad it will have similar effects on the local governments, thus releasing monies for the payment of our loans to foreign countries as well as to provide funds to stimulate our export trade.

Congress promises a protective tariff barring the States to European interests as a dumping ground for their goods, usually of an inferior quality. This presupposes local industries need not be embarrassed by the low production costs of foreign competition nor will imported goods be allowed to cast American labor into the throes of unemployment.

The export field looms more promising than ever. Uncle Sam has the goods to sell, the ships to transport them and the money to extend credit. Why then, pray tell, should not foreign fields afford a market for American goods. Besides, America is the reservoir of the world for raw materials, as statistics readily testify.

Economic factors are at work looking toward constructive potentialities. The enforcement of the prohibition enactment extinguishes a huge industry in which billions of capital were invested, all of which funds must now find their way into legitimate business with the result of greater buying power on the part of the public and the stabilized industries. The best sites of our large industrial centers gobbled up by saloon keepers, are now available to the legal pursuits of business where goods may be displayed to buyers and the public.

The cotton crop is a fair one and the price now offered for this commodity, while low in comparison with war prices, is said to have good possibilities of improvement satisfactory to southern raisers. Government grain reports indicate heavy returns. In spite of the drought in certain centers, other points return record production and the gross figures of agricultural production are large. For years these reports have been watched and studied because of their effect on general business conditions. Good cotton and grain crops mean supplies for our mills, purchasing

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power on the part of the public, and easier money after the crops begin to move. When the soil producer has money, everybody has money.

Labor is rapidly becoming adjusted to the new order of things. Proof of this is not lacking with the railroads, with the big industries and with the stable trades. Probably the best evidence is the large number of unemployed whose ambition for the other fellow's job will force a competition into labor that will control wages. It is to be hoped that building construction, road making and the general recovery in business will absorb surplus labor to the extent of relieving suffering and distress during the winter.

The greatest of business barometers, the stock and security market, indicates that the worst that could possibly happen has been discounted. Seasoned investment stocks and bonds are now selling on a basis of returning eight or nine per cent on investments. Wall Street's requirements of capital are at this moment the lowest in years. Consequently, time money offerings are more liberal at lower rates and the unfavorable factors of business adjustment are so completely discounted that such a sound technical position as to prices has been reached that further changes can only be for the better.

Money continues scarce, to be sure, with the government's huge requirements, the crops moving and the unprecedented demands for business purposes. Notwithstanding, bank clearances are satisfactory and the monetary situation is easing as is evidenced by the reduction in the Federal Reserve discount rate to  $5\frac{1}{2}\%$ . Expert financial opinion predicts a substantial fall in interest rates in the early autumn, while the banks have every confidence in their ability to care for the financial demands of legitimate business enterprise.

That general business is poor is no secret. Retrenchment policies curtailing the broad plans of expansion of many business houses had to come. Unfortunately, they came at a time when the greatest magnitude of the stroke hit the usual summer dullness. Naturally this served to accentuate the blow and to give it a momentum that challenges human efforts to resist. Only a little time on the part of the constructive forces now working will recover the shock and repair the wounds.

# **HIGH GRADE ASBESTOS TEXTILES**

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*Plain and Metallic Cloths*

*Braided and Woven Tapes*

*Braided Tubings*

*Woven Sheet Packings*

*Woven Brake Linings*

*Gloves, Mittens, Leggins*

*Gaskets, Seamless and Jointed*

*Packings, Steam and High Pressure*

*Wick and Rope*

## **Asbestos Fibre Spinning Company**

**North Wales, Penna.**

## — A S B E S T O S —

Relief is promised the great transportation facilities of the country thru the purchase of a half billion dollars worth of securities by the War Finance Corporation. The railroads are the potential purchasing powers of the country, but their resources have been drained by wartime burdens, their roadbeds and equipment impaired and many are theoretically bankrupt. When the government squares accounts with them and provides other support to which the roads are entitled, monies and credit will be available for this buying power to enter the markets from which they have been absent so long. A little reflection on their consuming power of market commodities, together with sealing of statistics to determine just how great their requirements are, will reveal in no uncertain terms just what this means. Five eighths of all the steel products made are consumed by the railroads and many other commodities are consumed on a favorable percentage ratio. It is estimated that in normal times the railroads of the country have a purchasing power of Five Billion Dollars per year.

Signs are not lacking in actual evidence of business improvement. The motor industry is manufacturing cars at a new record rate, many expanding their plants. The business being done and demand prevailing is reported as satisfactory. The production of motor cars in the United States is today less than a million and a half. The number operated exceeds nine millions. Assuming the average life of a car to be five years it would appear that the replacement business alone would work plants to capacity, with no allowance for export demand.

The steel industry has been dull, probably for the two major reasons; lack of buying by the railroads owing to their financial condition, and because prices have not yet been adjusted to a point regarded as in line with other commodity prices. As the financial horizon of the railroads clears, the demand for steel products will necessarily become more satisfactory.

The motor and steel industries are of necessity harbingers of conditions in the Asbestos Industry. Demand for Asbestos materials must follow better conditions in the industries where Asbestos manufactured products find their major uses. Probably as much as a third of the Asbestos Textile industry is devoted to supplying the re-

— A S B E S T O S —

**The  
Asbestos Corporation  
of America**

**BURLINGTON, VERMONT**

**Chrysotile Asbestos  
American Mines  
Spinning Fibres**

**For Prices or Graded Samples  
Apply to Burlington Office**

## — A S B E S T O S —

quirements of the motor industry while the alliances between Asbestos and the steel industry, the father of them all, is well known. When the wheels of the steel plants begin to hum again, active demand for insulation coverings, Asbestos packings and other minor specialties will reappear, even more persistently in some lines than during war time.

Bank clearances are large. Money is loosening up. Industrially and commercially we have gone thru the expected and necessary drastic liquidation. Today we are on a sound basis with but one enemy left. He is the confirmed pessimist, the calamity howler, the gloomy business man. Henry Ford says there is plenty of business for the man who has nerve enough to go get it, and he has proved his statement in his own industry. Ford is a "Go-getter." Are you?

**POSITION DESIRED**—Man experienced in construction engineering, power house erection, organization, estimating, selling and application of insulating materials. Technical graduate. Sound health; not afraid of work. Has had charge of office and large territory for insulating concern. Address Br-1, "ASBESTOS."

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We are now in a position to make immediate shipments of Asbestos Fibre.

Give us your inquiries and we will quote prices and forward samples.

Grades Nos. 1, 2, 3 & 4, Floats and Asbestos Sand.

### ∴ THE WINDSOR ASBESTOS COMPANY LIMITED ∴

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Mine-Coleraine, Quebec

— A S B E S T O S —

# ASBESTOS TEXTILE CO.

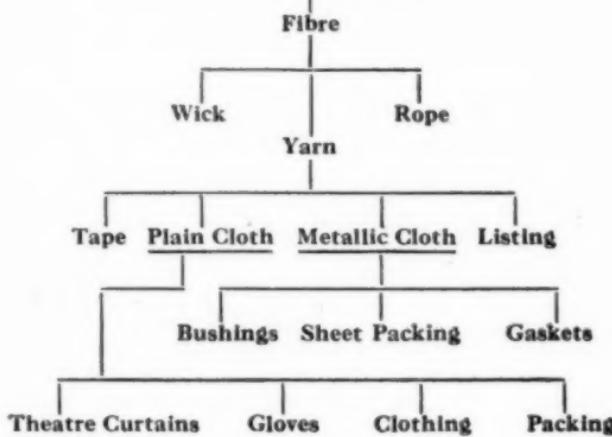
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WE MANUFACTURE

## ASBESTOS



Compressed Asbestos Fibre Sheet Packing

*"Quality and Service"*

# ASBESTOS TEXTILE CO.

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NEW YORK

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**A S B E S T O S**

## Contractors and Distributors Page

### High vs. Low Pressure Coverings

In the insulation covering world we are always concerned with temperatures and pressures. Every job presents its own separate and distinct problem. So variable are these conditions of temperature, pressure, boiler efficiency, and superheat that it is difficult to determine the line which separates the low pressure from the high pressure field.

What is a high pressure covering? How does it differ from the low pressure covering? Why will not a low pressure covering function on a high pressure installation?

The answers to the above questions will serve to clear the discussion at issue because it is manifest that any standard insulation will serve under low temperatures. The primary function of covering is to withstand heat. Coverings when subjected to heat will be affected in one of four ways:

- By oxidation—i. e. reduces to a residue of ash
- By carbonization—i. e. reduces to a residue of carbon
- By dehydration—i. e. removal of water
- By calcination—i. e. removal of carbon-dioxide.

As the heat attacks the inner surface of covering, a certain depth is affected in one or more of the ways enumerated above. In the case of low pressure coverings the effect of heat is carbonization, which, under continued exposure, penetrates layer by layer into the parts lying beyond. The effects of heat in this respect are progressive and cumulative, breaking down day by day, the whole structure. The result of this carbonization is sagging and drastic impairment in the efficiency of the covering. Under limited temperatures, however, the heat is not sufficient to set at work the above processes and consequently the low pressure covering has a field in which it serves successfully, efficiently and economically.

In the case of high pressure covering an entirely different experience is encountered. In this case instead of the inner surface carbonizing, it calcines, and in so doing sets up a material, quite as heat resisting or more so, than before calcination took place. Only gradually will this process develop and only to a limited point will it proceed, and the insulating efficiency of the covering will increase under the action of calcination. This calcined area keeps the heat from the parts beyond, and consequently the action of heat, however intense, is neither progressive nor cumulative. The calcinated inner shell is a highly efficient heat retardant and holds the elusive B. T. U.'s in place even better than the original material did before calcining.

Careful study of these various manifestations of different coverings is wonderfully interesting and yields valuable information to the students.

— A S B E S T O S —

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Chrome Company  
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Mines: Black Lake, Que.

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Crudes and Spinning Fibres  
Specializing in Shingle Stocks

Controlling  
Union Asbestos Mines  
Southwark Mines  
Imperial Asbestos Mines  
Black Lake Chrome Mines  
Coleraine Chrome Mines



— A S B E S T O S —



# AMERICAN COMPANY

*Manufacturers*

**Asbestos  
NORRISTOWN, PA.**

Headquarters

**YARNS, CLOTH, TAPES, FIBRES, BRAKE LININGS**

— A S B E S T O S —



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# Asbestos Mines Ltd.

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East Broughton, Que.



Mining all grades  
of Asbestos Fibre

Head Office, Jacobs Bldg  
Montreal, Canada.

## News from Mining Centers

### Australia

An interesting letter from our Sydney, Australia, correspondent, has just reached us and recites in some detail the experiences had by a party which travelled from Sydney a distance of about 1500 miles into the northwest part of western Australia, to examine Asbestos properties.

The Asbestos found there is reported to be of good long quality, but in narrow lodes, these lodes being suit-



able for very limited numbers of workmen to operate.

Many rivers, some a half mile wide, were crossed by this party, the river beds being *dry* sand. The method of getting the automobile across these sandy river beds was by draft camel as illustrated by the accompanying cut.

In future issues of ASBESTOS, production figures of the Australian field will be published.

### Arizona

We have often had the experience that if the daily press writes about Asbestos, it either makes gross mistakes, or prints things which, by their nature, should belong on the "funny pages."

For instance, we see that the "Arizona Record" of August 4th, when it notifies its readers that a group of

September, 1921

Page Thirty-five

# Asbestos Fibres

SPINNING FIBRES, SHINGLE,  
PAPER and CEMENT STOCKS

*Produced by*

**General Asbestos Co., Ltd.**

EAST BROUGHTON, QUEBEC

Imported Asbestos Yarns and Cloth

*Sole Selling Agents*

**IMEX CORPORATION**

25 Beaver Street

New York City      New York

## — A S B E S T O S —

Middle Western capitalists have come to Globe to investigate the possibilities of producing Asbestos in the neighborhood, delivers itself to the following effect:

"The principal supply of crude Asbestos consumed in the United States, comes from a small district in Canada, about 75 miles from Quebec, and altho it is superior to the South African product and the small quantities mined in South Carolina, and two or three of our western states, Canadian Asbestos is far inferior to Arizona Asbestos occurring in the district north and east of Globe. *The Canadian fibre is short and not well adapted for the manufacture of the finer fabrics*, while much of the Asbestos found in this section of Arizona is of the finest texture, and at the same time possesses the required tensile strength for spinning. The best quality of Arizona Asbestos occurring in Gila county, is of unusual length, some of it measuring from three to five inches."

We are certainly in favor of boosting the home product, but it does not add to the quality of Arizona Asbestos if we are told that the Canadian Fibre is short and inferior, and misstatements of this nature should be contradicted and discredited, as they smack too much of the gasings of unscrupulous promoters.

The article in question goes on further to say that Col. E. P. Thayer, the Republican National Committeeman from Indiana, was one of the prominent members of the party, which is primarily interested in the Asbestos holdings of San Carlos Indian Reservation, and we understand (and have so reported in a previous issue of this magazine) that prospectors and miners had been notified by the Indian Agent of San Carlos, that no claims could be staked out before April 15th, while it later on came to light that other people had received different information from Washington, and had staked their claims prior to April 15th. It is further alleged that when the prospectors and miners arrived at the spot, they found that the best claims had already been staked by Mr. George Thayer, son of Col. Thayer.

**WANTED**—Salesman with experience in selling Asbestos Textiles. Only expert considered. Good opportunity for advancement for energetic and capable man. Address 9 A-1, "ASBESTOS."

## Have You Seen the Movie

### **"A Dollar Saved is A Dollar Earned"?**

It's a one-reel picture put out by the United States Bureau of Mines, Washington, D. C., and dealing with the saving of heat by proper pipe and boiler insulation.

This film and many more on kindred subjects are used by the field force of the Bureau of Mines in connection with educational effort, but they are also lent to associations, technical schools, industrial organizations and others interested in heat economy. "A Dollar Saved is a Dollar Earned" was shown for two weeks at the recent Pageant of Progress Exposition, Chicago, Ill.

Possibly you are now interested in some organization that would like to see a picture dealing with the present pressing problem of reducing operating expenses.

No charge is made for the use of the picture. But a report must always be made, telling when and where the film was used and the approximate number of persons present.

All requests for the use of this film should be addressed to

**BUREAU OF MINES**  
*Experiment Station*  
**Pittsburgh, Penna.**

## MARKET CONDITIONS

Elsewhere in this issue we have set forth a digest of current opinion about future business prospects. Bankers, economists and leaders of large business enterprise seem agreed that the worst of the depression is over and any change *must* be for improvement.

Specifically, the Asbestos Industry is suffering from the most serious depression its oldest leaders can remember. Fortunately indeed, the past several years' prosperity recouped the much worn surpluses of miner and manufacturer and the slump found reserves in good shape to stand this heavy strain.

No sign of materially lower prices can be found but, unfortunately, the stress of hard competition is misleading some weak sisters into making and selling very inferior goods.

Obviously, the best interests of all engaged in producing, manufacturing and using Asbestos lie in having only the best merchandise possible to make. No good and lasting purpose is served by the Asbestos merchant who, just to get an order, will make or sell goods of such bad quality that they must be replaced frequently and at considerable expense to the user.

Strong arguments could be produced in favor of such a policy, but the Asbestos merchant can never profitably forget his duty to humanity. Bad brake linings, inferior packings, rotten pipe coverings, useless cement and miserable service in general, will inevitably ruin the man who makes and sells them, to say nothing of the injury he has done to the industry which gives him a competence.

With a decidedly improved tone in the building industry, these Asbestos and Magnesia products utilized in buildings will find a readier market. Notwithstanding a fair amount of effort expended to change the case, it is still a fact that pipe and boiler coverings find a very seasonal market. From September on thru the winter is the period of heaviest consumption, hence as we go to press a better condition is noted.

Automobile consumption of textiles is still slack, and we doubt whether very much improvement will come this year.

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## — A S B E S T O S —

A revival of general manufacturing will help the demand for textiles, packings and other products of Asbestos plants.

A keener realization of interdependence among miners manufacturers, convertors, and distributors, resulting in real co-operation and a lessening of the individual strife would put this industry forward more rapidly and permanently than any other half dozen things that could happen.

---

## Comments on Various Markets

### *Bands.*

The Ritter Can & Specialty Company advise us that there has been no change in the tin plate market since last month. From all indications business is picking up all along the line.

### *Cotton Duck.*

Advanced prices on cotton duck, effective Monday, Aug. 29th, were named by Turner, Halsey Company. The new discounts are  $2\frac{1}{2}$  to 5% less than previous figures.

### *Wire:*

The Standard Underground Cable Company tells us that both copper and zinc reached new low levels during August, demand being very light, but the first few days of September showed an upward turn in both these metals, and while the recovery has not been large, the tone of the market is considerably firmer.

Home consumption is still unimproved, but the foreign demand has become a little more active.

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## Shabanie-Rhodesian-Orlo Asbestos

Our good friend, Mr. E. J. Wilson of New York City, has been kind enough to enlighten us further as to the distinguishing differences between Shabanie, Rhodesian and Orlo Asbestos, some comment on which was made on page 45 of August "ASBESTOS." He says:

Orlo Asbestos seems to be an unknown quantity. For a number of years past there has been a stock of Orlo,

— A S B E S T O S —

# NATIONAL MAGNESIA MANUFACTURING COMPANY

*Manufacturers of*  
**“85% Magnesia” Pipe**  
*and*  
**Boiler Coverings**  
**Locomotive Lagging**

544 Market Street  
**San Francisco. California**  
**U. S. A.**

Cable Address, “Magnesia, San Francisco”

## — A S B E S T O S —

sometimes called "Russian" Orlo Asbestos, in this country. Most people, however, think that it never came from Russia but that it is a very inferior grade of Asbestos from Africa. It has made no headway in the United States.

Rhodesian Asbestos: Rhodesia (British South Africa) is a British province in Africa which embraces the region north and west of the Transvaal up to about the twenty-second degree of south latitude. The area is about 750,000 square miles. It is not a part of the Union of South Africa. The term "Rhodesian Asbestos" is a general one and covers any Asbestos coming from Rhodesia, regardless of kind, color or quality. The term really means nothing, no more than the term Canadian Asbestos has any significance.

Rhodesia produces many varieties of Asbestos, but, as in the case of Canada, only a few mines produce a good quality of fibre. Shabanie is the name of the principal mine there, owned by the Rhodesian and General Asbestos Corporation. The trade name for the Asbestos produced at the Shabanie mine is C & G No. 1 and No. 2 Shabanie Asbestos. This Asbestos is true chrysotile. Practically the same in chemical composition and water of crystallization as the Canadian chrysotile. It is the best quality of Asbestos produced in Rhodesia or South Africa.

To continue further, the Union of South Africa, after the Boer War, consisted of the Cape of Good Hope, Natal, the Orange Free State and the Transvaal, and has added to it recently some of the territory seized from Germany. Very little of chrysotile Asbestos has been found in the Union of South Africa, or "South Africa" as it is generally termed. There are, however, large deposits of Blue Asbestos which is a variety of amphibole, called crocidolite. This is a silicate of iron and soda with very little water. Also, there are large quantities of amosite Asbestos which is an iron amphibole characterized by a very high percentage of iron and very little, if any, combined water.

You will see, therefore, that the terms African Asbestos or Rhodesian Asbestos, really mean nothing. Rhodesian Asbestos has been offered as Shabanie, after the same manner that a very inferior quality of Canadian might be offered as King's Crude or King's X.

Mr. Wilson has also sent us analyses of Canadian, Arizona, Shabanie, Blue and Amosite Asbestos, which will be printed in an early issue.

— A S B E S T O S —

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CRUDE  
ASBESTOS**

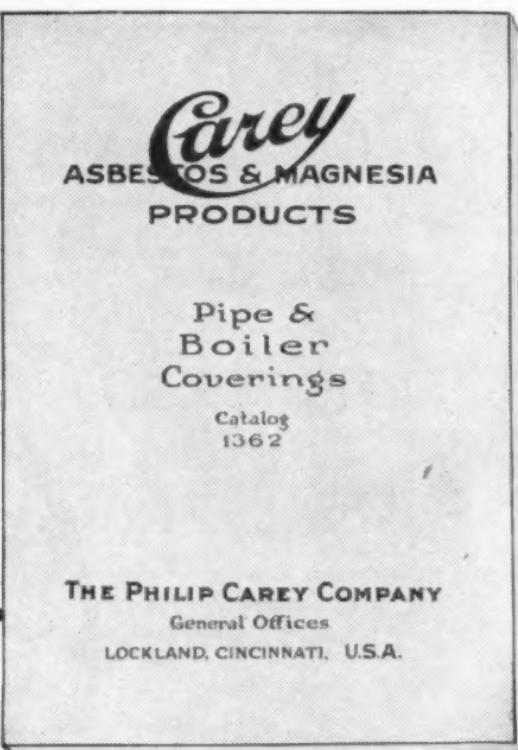
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— A S B E S T O S —



**G**ET this valuable book—60 pages on important insulating materials for ALL purposes. Ten pages of data for engineers. Write for it.

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A S B E S T O S

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## Imports and Exports of Asbestos

	June 1921	June 1920
From Germany	10 tons	\$10,200
China	3 tons	1,086
Br. So. Africa	28 tons	3,749
Portuguese		142 tons \$16,702
Africa	20 tons	3,604
	61 tons	18,639
		142 tons 16,702

During June 1921, 4099 tons, valued at \$168,048, were imported from Canada.

Imports of Manufactured Asbestos Goods during the month of June, comparing the two years, show the following:

	June 1921	June 1920
From Germany	\$ 255	
Switzerland	67	12,850
England	6596	33,909
Scotland	517	
	7435	46,759

Exports of Manufactured Asbestos Goods during June 1921 amounted to \$110,502, while for the same month in 1920, they amounted to \$174,561. Some of the most interesting figures for individual countries are given below, and full details can be had by addressing "ASBESTOS."

	June 1921	June 1920
To Germany	\$12,030	\$ 372
Mexico	20,862	9,877
England	2,632	14,907
Norway	2,763	1,747
France	1,373	7,958
Santa Domingo	17,789	4,212
Peru	6,178	2,451
Japan	5,297	46,651
Australia	1,276	5,495
Cuba	4,963	15,304

We suggest that our readers also compare these figures with those given for the month of May in the August number, as a month to month comparison will no doubt prove of interest.

# Asbestos Corporation of Canada, Limited



*The Largest Producers of  
Raw Asbestos in the World*



**CRUDES  
SPINNING FIBRES  
SHINGLE STOCKS  
PAPER STOCKS**

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Beaver Mines, " " "  
B. C. Mines, Black Lake, "  
Fraser Mines, E. Broughton, "

*Head Office*

260 St. James St., Montreal

*General Office*

**THETFORD MINES**  
Quebec, Canada

## Judge Landis on Labor

*Reprinted from The Manufacturer*

After a month's careful study of the problem, Federal Judge K. M. Landis, arbitrator of the building trades controversy in Chicago, has declared that a radical revision of the proposed agreements between employers and employees must be made before he will fix a wage scale. In his statement he has incorporated several suggestions for consideration in formulating a uniform agreement.

Judge Landis suggested revisions providing that under penalty of not less than \$25, no union men should strike because a non-union man of another trade is employed on the job. In case of scarcity of union labor, non-union men should be permitted to work until such time as union men can be employed. Employers not affiliated with an employers' organization should enjoy the benefits of its provisions, upon the payment of a certain sum to be determined later. Union men should be permitted to do jobs of any trade, provided such work does not require more than a half hour of any day. Employers and contractors should be permitted to work on their own jobs if they wish. Past decisions and future decisions, when made by the national board of jurisdictional awards, shall become binding on the parties thereto.

Judge Landis, after a careful perusal of the agreement submitted by the Building Trades Council and by the Building Construction Employers' Association and the Associated Builders, formulated the following principles which should govern the consideration of agreements and working rules.

Article I. Monopolistic elements of associations or unions are intolerable unless:

1. The public is served more economically with them than without them.
2. Any one qualified may join them without hindrance or discrimination.
3. They serve any one on demand, without discrimination.
4. Sufficient apprentices be taught to supply enough skillful managers and workers.
5. Working rules and conditions eliminate waste of time, effort and material; increase quality and quantity of product; encourage improved methods, materials and appliances; produce increased skill and contentment of the workers; help to preserve peace in the community.

## — A S B E S T O S —

Article II. Other things being equal, trades should have higher wages, or wages above the average:

1. If the work is more hazardous.
2. If greater skill is required.
3. If a longer term of apprenticeship is required to become proficient.
4. If the work is intermittent or unsteady due to weather or seasonable demand.

Judge Landis also urges elimination of excessive overtime wages, rules requiring unnecessary foremen, stewards or helpers and rules impairing efficiency.

On September 7th, Judge Landis handed down a decision which embraced many of the above points, the most important ones in the decision being: that in case of scarcity of help non-union men may work with union men; that small tasks requiring not more than thirty minutes may be performed by the workmen of another trade; that no restriction may be placed as to the amount of work a man may do nor against the use of machinery or methods of appliance.

Rate fixed for pipe covering mechanics was 95 cents per hour; old rates being \$1.25.

If the executives of some struggling businesses which we might name could get it thru their heads that "advertising is not a tonic to be applied on occasion," they could make progress which energy, foresight, manufacturing ability and salesmanship alone cannot accomplish. It is unjust to the greatest of business arts to resort to it indifferently, intermittently, inefficiently, without recognition of the vital part it plays in trade development, and then denounce it for the disappointment that sometimes results.

Make advertising a part of your business. Give its planning, as well as its execution, the attention it deserves. Don't administer it as a tonic, but as a food. Rightly used it will achieve for any meritorious product that is now unknown what it has done for thousands of commodities whose names have been made household words by judicious, continuous publicity.—*Philadelphia Record*.

**The foundations of the greatest successes are laid, not in days of universal prosperity when anybody can succeed, but always in days of uncertainty and difficulty when faith, courage and enterprise are required.**

— A S B E S T O S —

Canadian  
Crude  
and  
Fibres  
Asbestos

South African  
and  
Rhodesian  
Blue  
and  
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Asbestos  
as soon as  
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will be  
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Inspector

of Asbestos, Crude and  
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Long Fibres

**PENNSYLVANIA ASBESTOS CO.**  
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— A S B E S T O S —

# ASBESTOS FIBRE

FOR THE MANUFACTURE OF

**Asbestos Millboard**

**Asbestos Paper**

**High Temperature Cements**

**Pipe Coverings**

**Asbestos Shingles and Lumber**

**Insulating Cements**

**Fibrous Paints**

**Filtration Packings**

**Roofing Cements**



## THE QUEBEC ASBESTOS CORPORATION

*Office and Mines*

**East Broughton, Province of Quebec  
Canada**

## NEWS OF GENERAL INTEREST

AMERICAN GAS ASSOCIATION MONTHLY editorially on the bituminous coal situation says: "That in view of the conditions reported to us and the growing concern that is being expressed, we believe that utility companies should give the matter the most careful consideration and not unduly defer the acquisition of reasonable coal stocks and reserves of coal."

An article appeared in the August issue of Marine Engineering by James L. Haynes in which by curves and explanation the writer tries to show the increase in efficiency by the use of Superheat in steam plants. The writer admits that a very broad field of valuable investigation is open in the matter of superheating as applied to ratings and efficiencies of Marine Boilers and Engines.

Fire losses in the United States and Canada continued upward in July, a condition most noticeable since April. July losses totaled \$33,355,750 against \$25,135,825 in July 1920, and \$20,198,600 in the same month of 1919. June's total was \$29,000,700, that in May \$23,956,800 and in April \$22,178,900 the latter month running nearly even with the corresponding month of 1920.

For the first seven months of 1921 the United States and Canadian losses aggregate \$198,282,050, an increase of \$8,609,325 over the corresponding period of 1920 and of \$48,066,475 over the first seven months' total of 1919.

The plants of the General Motors Corporations and its seventy-eight subsidiaries and affiliated companies are located in 35 cities, embrace a total of over 2,000 acres of land and 15,000 offices and factory buildings which have a combined floor space of 32,000,000 square feet.

According to Forbes wholesale gasoline prices in the principal cities of the country average 20.3 cents per gallon. This, compared with an average of 28.9 cents on January 1st, 1921, indicates a decline of about 30 per cent.

Appropriation to the Shipping Board has been cut from \$100,000,000 to \$48,500,000.

On account of high wages that must be paid the miners, the increased freight tariffs and the lessened production, the National Coal Association suggests that both the bituminous and anthracite coal prices are likely to continue firm.



## NEWS OF THE INDUSTRY

A recent visitor at the office of "ASBESTOS" was A. G. Pryce-Williams, Mining Engineer, Bulawayo, S. Rhodesia, and interested in the Rhodesian Asbestos deposits.

Cresswell's Limited, Bradford, England, manufacturers of the well-known Chekko brand of brake lining, in a letter dated August 2nd, comments most favorably on an article which appeared in the July number of "ASBESTOS," concerning the need for a better quality of brake lining for automobiles.

Cresswell's fully agrees with us that too much effort is devoted by brake lining manufacturers to reduce cost by substituting cotton, and other inflammable fibres, for Asbestos. It is claimed that Chekko Brake and Clutch Linings are absolutely free from cotton and samples of this product which have reached us certainly indicate a very high quality material.

The Butte Montana Post, under date of August 6th, reports considerable activity on the part of one Robert Burns who is interested in the Asbestos property in the West Gallatin country. It is unfortunate that many of these very promising deposits of Asbestos turn out to be Amphibole, or if Chrysotile, then of a quality unsuited for commercial use.

Our birthday list this month includes the names of R. V. Mattison, Jr., Vice President and General Manager of the Keasbey & Mattison Company, whose birthday occurs on September 16th; A. W. Koehler, President of the Asbestos Textile Company, date September 29th; and Sir John W. Carson, President and Managing Director of Consolidated Asbestos Limited, date October 13th.

To all of these gentlemen we extend our hearty congratulations and best wishes.

B. Marcuse, President of the Asbestos & Mineral Corporation, in his numerous travels thruout the world has been a successful collector of stamps.

Since Mr. Marcuse does not sell or trade in stamps he makes the liberal offer to supply stamps from out of the way places to the children of any user of raw Asbestos who are interested in the collection of foreign stamps.

Here is a real opportunity to fill in the blanks in your collection.

We note from Albany papers the incorporation of the Albany Asbestos Slate Company, Inc., capital stock \$200,000 eight per

— A S B E S T O S —

ASBESTOS



**Bennett-Martin  
Asbestos and  
Chrome Mines  
LIMITED**



*Head Office*

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Canada**

*General Sales Office*

**220 Broadway, New York**

*Mines Located at*

**Thetford Mines and Vimy Ridge**

## — A S B E S T O S —

cent. preferred, 5000 shares common stock of no par value. The directors are Emil F. P. Stockhausen, Fred R. Scherer, C. Bertrand Race and Daniel F. Strobel, others to be added from among the stockholders.

The object of the Company is stated to be the manufacture of an asbestos slate or shingle superior in quality and at a low price.

A notice appears in the India Rubber Journal, of issue August 6th, to the effect that a meeting of the creditors of Dr. Hogyes' Asbestos Sock Co., Ltd., 80-81 Britannia St., City Road, London, N. 1, would be held at Winchester House, Old Broad Street, London, E. C. 2, on August 8th.

The Victor Manufacturing & Gasket Co., which for the last few years has specialized entirely upon the production of Victor Copper-Asbestos Gaskets, is now putting on the market a complete line of shims. These will be made of both copper and brass and there will be a type for every motor and engine need. The Victor Company is also putting on the market a new fibre top cylinder head gasket for Fords. This new gasket is in every way identical with the standard Victor Copper-Asbestos Ford Gasket, No. 101, with the exception that in place of the top layer of copper a special non-absorbent, heat-resisting fibre of great strength is substituted.—Commercial Car Journal.

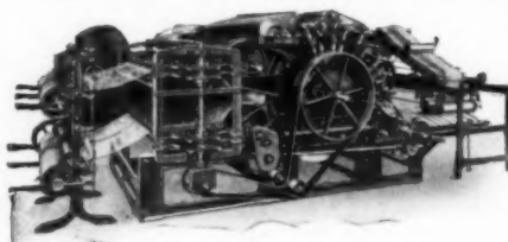
The Cape Asbestos Works at Barking, at which a strike recently occurred, have resumed operations. According to the India Rubber Journal the Company is adhering to its revised scale of wages.

The Black Lake Asbestos & Chrome Co. passed the interest payment of 3%, due September 1st, on the 2nd mortgage 6% Non-Cumulative Income bonds. The reason given is that because of unsettled conditions, earnings do not warrant payment of the interest.

Probably the greatest conference of the chemical engineering profession will be the Seventh Annual Chemical Exposition, Eighth Coast Artillery Armory, New York, September 12th to 17th inclusive. Booth No. 301 will contain the exhibit of the Magnesia Association of America, where Magnesia materials, charts, curves, tests, photographs of large steam and power plant installations, ships, government work, etc., may be inspected and studied. Miniature blocks of 85% Magnesia will be given as souvenirs, and catalogs, specifications and literature will be distributed. Those affiliated with the Asbestos or Magnesia Industries are privileged to make the Association Booth (No. 301) their headquarters for appointments, mail and wire address, etc. Meet that friend at Booth No. 301—Chemical Show.

The Italian Government has but recently increased the rate

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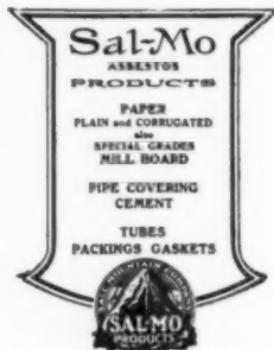
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## — A S B E S T O S —

of import duty on Asbestos Manufactures a flat 50%. Raw crudes and fibres are still admitted free but on every class of fabricated goods the protection previously in force is increased by one half.

The French have also increased their tariff more than 100%, the increase varying, depending on the class of Asbestos Manufacturers affected.

And then American Manufacturers are roasted for seeking reasonable protection!

A receiving order has been made against Wilson & Company, Asbestos Merchants of 79 Queen Street, London. The first meeting took place at the Bankruptcy Buildings, London, on August 3rd, and the public examination is fixed for October 25th.—India Rubber Journal.

C. H. McDonagh, on August 31st resigned as Secretary of the National Magnesia Manufacturing Company, San Francisco, and will devote his energies to sales representation in the Pacific Coast territory of manufacturers of allied commodities, such as rubber belting, hose and other mechanical rubber goods.

At the annual general meeting of the Cape Asbestos Co., Ltd., London, held in July, the Chairman, L. Breitmeyer gave an interesting review of the past year's trading. A profit of £49,546 was shown, which was practically equivalent to that of previous years, notwithstanding the exceptional circumstances existing.

Mr. Breitmeyer stated that the mines in South Africa had been working at full capacity thruout the year, the sales of blue crude asbestos having exceeded the production. The comparatively recent product of blue jacket sectional covering was finding a ready market and would prove a serious competitor to magnesia covering for pipes and boilers. Blue Asbestos is continually finding new outlets to meet the requirements of business, and for this reason Mr. Breitmeyer believes that they may face the future with every confidence.—Noted from India Rubber Journal.

In the Canadian Mining Journal of issue August 26th, and in the August Bulletin of the Canadian Institute of Mining and Metallurgy, will be found a very able paper under the title "The Asbestos Industry" written by J. G. Ross, Consulting Mining Engineer of the Milton Hersey Company, Limited, Montreal. The paper was read at the annual general meeting of the Canadian Institute of Mining and Metallurgy in March of this current year. Owing to rules of the Institute, which forbid the printing of papers in general publications until said papers have been published in the Bulletin of the Institute, some of Mr. Ross' valuable observations are a little out of date.

For the most part, however, the article bristles with important facts and is well worthy of reading, especially by miners and manufacturers of Asbestos.

The great bulk of the readers of "ASBESTOS" would, we

## — A S B E S T O S —

believe, not be especially interested, hence our decision against reprinting the article in full.

Under the name of the Pacific Asbestos Corporation, a company has been incorporated in San Francisco, with a total capitalization of \$3,000,000 of which \$2,000,000 is common stock and \$1,000,000 is preferred. \$750,000 of 8% cumulative preferred stock is being offered, the proceeds to go toward the construction of a mill with capacity of 1000 tons of rock every eight hour shift. \$1,500,000 common stock is issued in payment for the properties and for the development work thereon. The par value of both issues is \$100 per share.

The holdings of the corporation cover 600 acres located in Calaveras County, California, 46 miles east of Stockton near Copperopolis along the Stanislaus River. The deposits are reputed to be of the Chrysotile variety similar to Canadian in quality.

An area of 8,000,000 tons of Asbestos bearing rock has been blocked out estimated to contain 5.17% Asbestos fibre. Reputable mining engineers are represented to have passed on these findings.

Claim is laid to the fact that development of Asbestos mines in California will mean not only the command of the Pacific Coast markets, but a favorable location to command the attention of the Oriental markets. John A. Voorhees of San Francisco is the president.

The Report of Mining Operations issued by the Department of Colonization, Mines & Fisheries, Bureau of Mines, Province of Quebec, for the year 1920, in commenting on production of Asbestos in countries other than Canada, gives the production figure in South Rhodesia for 1920 as 21,082 tons (of 2000 pounds each). This is an increase of 92% over production for 1919 which totalled 10,965 tons, while in 1915 the production figure amounted to but 2240 tons.

Production in the Union of South Africa for 1919 was 4403 tons; figures for 1920 being unavailable at the present time. It is expected, however, that production of Asbestos in that part of Africa will show a great increase in 1920 as 2634 tons of amosite were mined during the first six months of that year.

The second annual outing of the India-rubber and Asbestos Trades (England) held in July, took the form of a delightful motor trip, with stops at hotels at Waddington and Preston for lunch and dinner. The party numbered twenty four.

From the Casper (Wyoming) Herald, we note that Fred Patee, has just received word that his patent on Asbestos chimney blocks has been approved by the Government patent office. Application for patent was made about two years ago.

It is interesting to note that the world's largest hangar, in process of construction at Lakehurst, N. J., uses Asbestos (pre-

— A S B E S T O S —

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## — A S B E S T O S —

sumably Asbestos lumber or wood) for its doors, the material being placed over steel framing. This hangar was to house the unfortunate dirigible ZR-2.

Early in this month papers were filed with the Montgomery County Court applying for temporary receivership for the Valley Forge Magnesia Company. The application requests the appointment of Messrs. W. Griffith and George Flint as Receivers with the Montgomery County Trust Company as surety.

George Smith, Mines Manager, Bell Asbestos Mines, Thetford, is suffering severely from an attack of neuritis. His condition is reported not to be dangerous, but quite painful.

Admission has been made by the General Asbestos & Rubber Co. of Charleston, S. C., that a merger had been arranged by the company with the Raybestos Company of Bridgeport, Conn. Under the agreement between the two companies a common board of directors has been selected to take full charge of the affairs of both of the companies. The agreement which is termed a "community of interest" by officials, places the control of assets amounting to \$9,615,000 in control of this single board of directors. The share of the "Garco" interests in these assets is approximately \$5,055,000.

Reports of such an amalgamation have been current for some weeks and consummation of the arrangement does not cause any surprise among business men. It is announced that the officers for the two concerns include: C. Bissell Jenkins (Charleston), chairman of the board of directors; Sumner Simpson, president; Matthew B. Barkley (Charleston), H. C. Simpson, and C. Bissell Jenkins, Jr. (Charleston) vice presidents, John P. Thomas (Charleston), treasurer.

It is said that the amalgamation means that both companies will be given much wider opportunities and that the shareholders of both will be greatly benefited thru this combination of resources.—*Journal of Commerce, New York City. Dated Aug. 23rd, 1921.*

As we go to press a very interesting communication is received from our Rotterdam correspondent, who tells us that the Asbestos business in their country is very much depressed, on account of the general political and economical situation.

They say: "The big Silesia industrial district is cut off entirely which means that the industrial production in Silesia has fallen off very considerably. The same situation prevails in the rich Rhineland industrial district where thru the new so-called sanctions a fresh custom barrier has been erected, cutting off this country entirely from the main part of Germany, so that no goods can be exchanged unless in paying custom taxes, while a lot of goods is not allowed to enter or go out.

Before we shall see a revival of the German indus'ry it will be necessary that the above explained situation disappears entirely, and that a free exchange of goods and a free production of coal, iron, etc., can take place as in former days."

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## Afterthoughts

Not long ago one of our readers wrote us that he "read every line of each issue." Judging by the comments, suggestions and information received after each number is put in the mails, this seems to be the habit of you subscribers, and we, naturally, are grateful for the compliment implied.

We want to make particular mention of the picture appearing on page 35. This was sent us from Australia and while we wish it had been possible to make the plate a little clearer, we think you will get a fair idea of travelling conditions in the Australian Asbestos field.

The promised article on Asbestos Cloth appears this month. We think you will like it. It was our intention to reprint in this issue an article from the Canadian Mining Journal which commented at some length on the report of the Bureau of Mines, Quebec, for the year 1920. Room was not available, however, and it will have to be held over until next month. The article gives so much useful information and helpful statistics that we believe the readers of "ASBESTOS" will appreciate having it in their magazine so that it may be readily referred to.

Next month the leading article will describe exhaustively the use of Asbestos Paper in steel filing cabinets, and will be fully illustrated showing tests conducted by the manufacturer. The makers and sellers of Asbestos Paper will find much in it of interest and profit.

For a long time we have been wanting, and trying our darnest to get, an article on Copper-Asbestos Gaskets. Our Staff is not sufficiently familiar with Copper-Asbestos Gaskets to prepare such an article. Won't some of you who manufacture, sell or use Copper-Asbestos Gaskets get busy and let us have either the article or the information with which to prepare one. Don't bother about the style or even the grammar, if we get the facts we can fix them up in readable shape.

And oh by the way, some of you who we know read every issue of "ASBESTOS" and wouldn't miss one for anything, have forgotten to renew your subscription. Hustle your dollar in, or send an advance request for renewal until you have time to write a check.

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## Get Busy

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Said one little chick with a funny little squirm,  
"I wish I could find a nice little worm,"  
Said another little chick with a queer little shrug,  
"I wish I could find a nice little bug."  
Said a third little chick with a strange little  
squeal,  
"I wish I could find some nice yellow meal."  
"Look here," said the mother, from a green  
garden patch,  
"If you want any breakfast get busy and  
scratches."

—With credit to unknown author.

